



United International University
QUEST FOR EXCELLENCE

Department of Computer Science and Engineering (CSE)

Summer 2023 Trimester
CSE 2118: Advance Object Oriented
Programming
Section: B

Project Name: Medeasy

Group Name: Go features

Name:

Rifat Ibne Yousuf	011221235
Jiyasmin Akter Sinthiya	011221503
Sumya Jannat	011221172

Submitted To

Ajwad Akhil Sir

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INTRODUCTION:

Medeasy stands for all the medical related facilities . It involves patient registration, saving their information in the system, as well as automated billing in the labs and pharmacy. The program has the ability to automatically save each patient's and the staff's information while also providing a unique identifier for each patient. It has a search function so you can find out the state of each room right now. The ID may be used to look for a doctor's availability and patient information.

A username and password are required to access the Hospital Management System. Administrators, Doctors can access it. The database can only be expanded by them. There will be also a Doctors profile, admin profile and Patients profile. It is simple to retrieve the data. The user interface is quite nice. Information is securely secured for personal use.

FEATURS LIST / MODULES

1. **Homepage:** people can touch with all the information and facilities easily.
2. **Login Page:** There is individual login page for doctor, admin and for patients. For login, patient have put their birth certificate information, username and password. And for doctor all have to put username and password.
3. **Verification:** Verify that the entries are of the correct format . No duplicate entries should be allowed. All links should take the user to the correct page.
- 4.**Chat:** There is also a chatting facilities which will be helpful for patients to interact with the doctors also they can ask for any help to the doctors.
- 5.**Search:** There is a search option where people can find any hospitals or doctors according to their interest.

There is three module in this system which is Admin module , Doctors module and user(Patients module).

Admin module:

Admin has individual dashboard or profile . Only admin can add doctors and admin can search all the doctors profile . If admin add any doctor then that doctor will get a email and doctors ca see all the information about patient. Admin can watch appointment of doctors , can watch all the reports .

Doctor module:

- + Can manage his/her own profile
- + Manage appointment with patient
- + Manage patient account opening and updating
- + Organize prescription for patient
- + Provide medication for patients
- + Can make reports for patient.
- + Doctor can see patients' previous medical history

Also, it has a graph which show how many patients has appointed and the doctor consulted.

Patient Module:

- + Manage own profile
- + View doctor list
- + View medication from doctor
- + View appointment list and status with doctors
- + View prescription details
- + View doctor list
- + View the status of the blood bank
- + View medical history

Challenges

It was a quite challenging as it was our first project as a CSE student and we faced a little bit of difficulties in implanting this project. But it will very useful for all the people.

Frameworks

We used scene builder to make the appearance of the user interface and other pages. This helps us make a better design. We used a program called IntelliJ IDEA to make codes with javafx.

Tools: We used database and networking , thread , API request handling, JsonParser, JFoenix, MaterialFX, ControlFX, Automatic login for implementing this project.

CONCLUSION

We save patient information on the computer to keep it safe. With this application , we can quickly see a patient's medical past. So the way we handle information will be quicker. It makes sure that the information about patients is kept up-to-date and correct. It makes finishing book keeping easier, which means people don't need to work as hard and everything is done quicker and more accurately